Everything clean: treat sewage in a clean and sustainable way!

TECHNICAL INNOVATION 2014

The Best for All

batchpur-Sewage Treatment Plants

CE

www.batchpur.com

TECHNICAL INNOVATION 2014

In focus: Clear step ahead in technology.

State of the art controls with measurable benefits

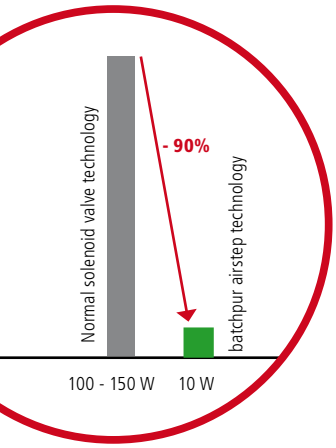
batchpur small sewage treatment plants are characterised by a newly designed intelligent easy...con control unit module. The whole construction is high quality. All connecting adapter are made of stainless steel and can be replaced quickly and easily in a service-friendly manner.

The advantages of the new control unit at a glance:

- sensationally low energy consumption in standby mode of under 1 watt
- illuminated display with graphic presentation
- comfortable 6 button controls for easy use
- USB connection for simple software updates
- Electronic user manual which can be access as standard via the display, the USB interface or optionally online

Super silent air distributor system with long service life airstep

What distinguishes the sophisticated but cost-saving differences of batchput plants from others?



- **90 % less energy consumption in the air distribution system:** batchpur plants operate in the Airstep air distribution system with stepped motors and not solenoid valves. Solenoid valves have the disadvantage that during opening they must be constantly supplied with energy. This means for you as a consumer, for example, that the solenoid valve must be powered throughout the aeration time. If the aeration time exceeds 15 minutes, then the solenoid valve requires power for 15 minutes. Usually between 10-15 watts. The calculation is quite a simple one: When the solenoid valves are open a total of 10 hours per day in a conventional sewage treatment plant, this means power consumption of 100 to 150 watts each day. **For the same period the batchpur stepped motor system requires less than 10 watts.**
- **Super silent technology:** Solenoid valves cause a typical noise with each gear change. Stepper motors are barely audible. **Gentle technology which goes easy on the material.**
- **Well-designed technology:** The stepper motors in the Airstep system are made of high quality material and being reversible can therefore be easily replaced when necessary.

batchpur®

Comfortable remote monitoring

- The new easy ... con control enables a user-friendly and logical remote monitoring of the system by modem connection. You log on to your secure access to the operational data of your system, you can control the parameters and print the instruction manual directly from a PC. When on the go you always have secure access to your treatment plant.
- The sewage treatment plant with the easy ... con control has the technical approval should the operator controls fail: The operator does not have to check the plant since this control function is assumed by the easy ... con control via a modem and logged automatically in the operations manual and, where appropriate, it informs the operator by email.
- Thanks to the technical approval of the "one-time maintenance for cleaning classes C and N" the required double maintenance from the third year of operation can be reduced to a single maintenance per year. More detailed information can be found provided by your expert advisor.

Easy to assemble and maintain on the long term ...

- In the event of any failure with a con ... easy control with Internet connection the customer service can immediately check from the office and if necessary rectify the problem inexpensively in this way. If there is a fault, the causes can usually be diagnosed and the service technician has a clear picture of the action or spare parts that are needed and can work efficiently on site.

Responsible and farsighted choice of materials and design

- batchpur small sewage treatment plants are designed and manufactured with care and foresight. These are fine technical details that are born from the commitment to sustainability and performance, such as quality, durable material of the individual components, production in accordance with high levels of industry standards, glued or welded joints in plastic pipes and sockets instead of using quick-fit joints etc. As a consumer you will realize these benefits as the plant ages. It is then that the individual components from batchpur can be fitted and replaced quickly and economically. **batchpur is the small sewage treatment plant that thinks about the next generation.**

= real quality!

Perfectly clean.

CE

batchpur®

Building Supervision Approvals for "operator controls" and "one-time maintenance" with easy...con remote maintenance for C and N

Approval certificates of the building supervisory authorities for the batchpur are in fact available.

Safe with the best water quality

With batchpur you have decided in favour of a sewage treatment plant, which guarantees the cleaning process according to the SBR process in its highest technical construction stage. The deciding advantages of batchpur are in the details: Conscientious selection of the materials, many passed test audits, thought-out design from the operator point of view and reliability of your batchpur partner.

Prepared for future regulations

There is always a way with batchpur, if stricter environment regulations in future would also affect you. You can upgrade batchpur at any time from cleaning class C up to the highest class H.

As small plant for up to 50 inhabitants
As large plant for up to 2,000 inhabitants
For all cleaning classes

The right decision

It has passed all approval tests. The concept of the small sewage treatment plant from batchpur is based on the principle of sustainability. It was therefore of importance for the developing engineers right from the start to create a system prospectively thought-through and innovative in the long-term.

The performance of the small sewage treatment plants from batchpur was tested in all treatment classes at a testing field. Batchpur has received the respective approval certificates for all cleaning classes.

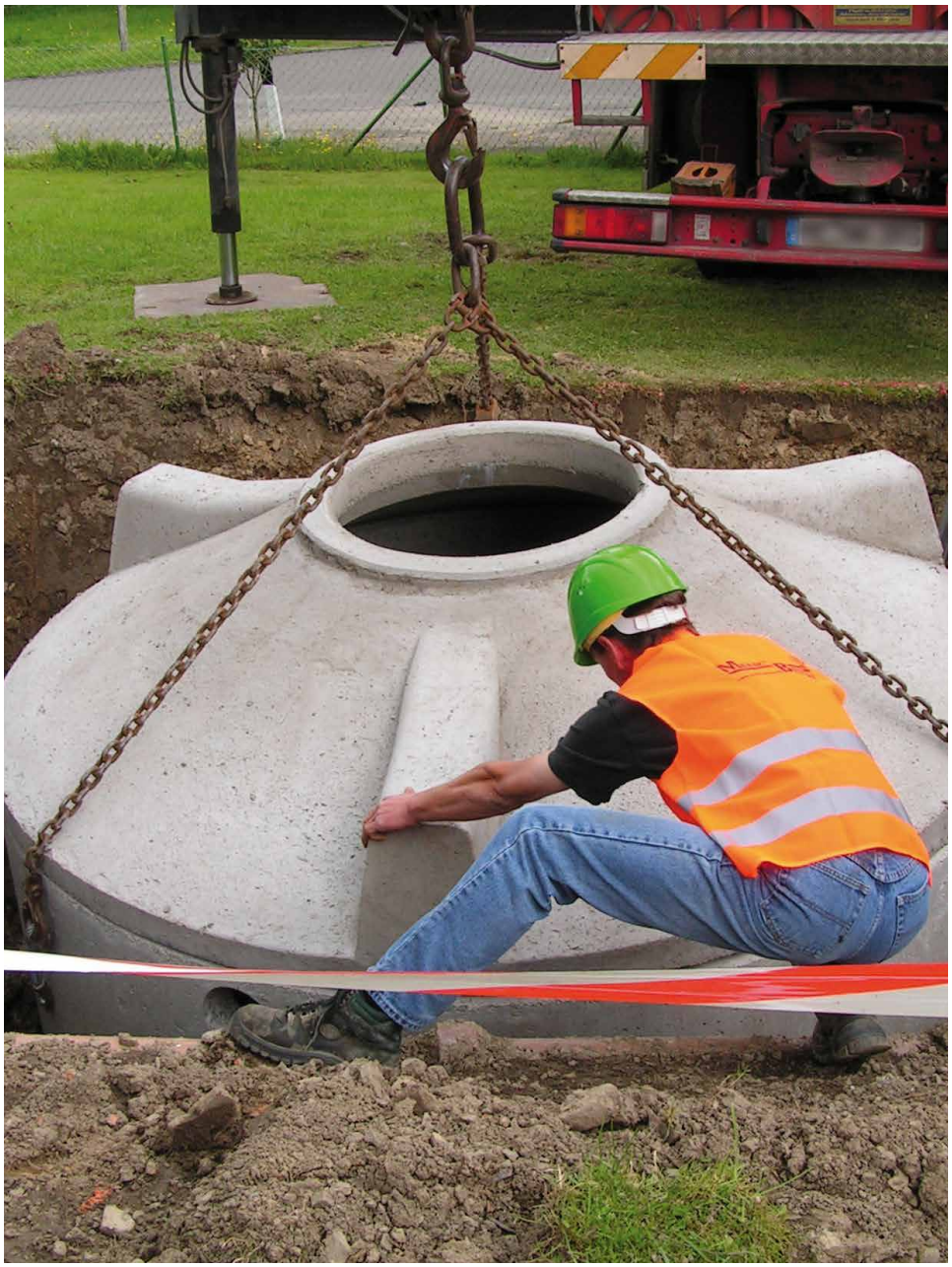
- Everybody knows from experience that environemantal requirements are increasing constantly. Insofar it is reassuring that also higher cleaning classes can be achieved.
- In Germany, a building supervisory approval does not come as a present. Neither costs nor efforts were spared: batchpur has passed all tests required for concrete and plastic containers. Also good to know is that batchpur has passed the tests with ease and there is space for upgrades.

The small sewage treatment plant from batchpur offers double safety:

- Should conditions change in the future, you can be sure, when purchasing a small sewage treatment plant from batchpur today, that your plant will also **meet future requirements**.
- A plant, having proved that it meets all cleaning classes is **a high-performance** plant in any design.

Long-term value.

Clean installation.



batchpur®

Effortless!

10:30 a.m.

Building pit is excavated, cleanness layer filled up: The batchpur plant has arrived!

10:45 a.m.

The batchpur plant is lifted from the lorry directly into the building pit.

12:00 a.m.

The batchpur plant is running; the building pit is filled. The control unit can also be installed in the open in the GFK-cabinet (protection class IP 56) with comfortable access for you.

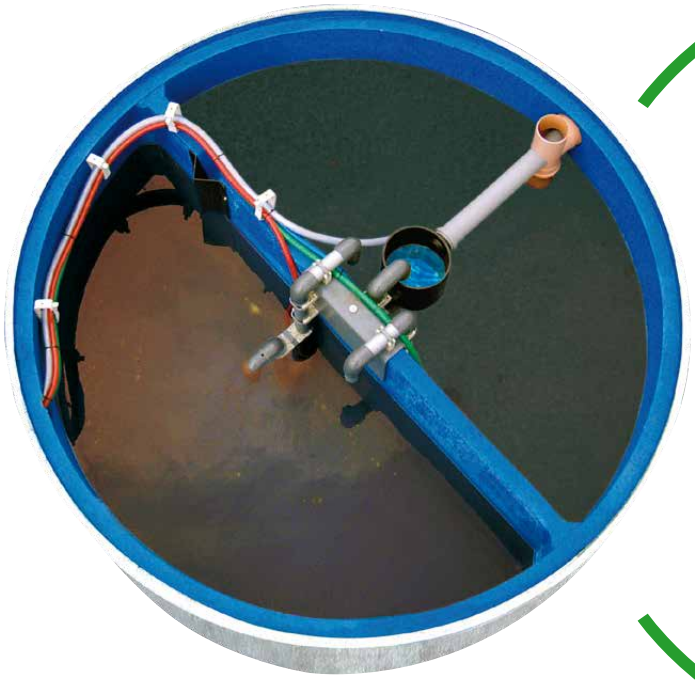
11:00 a.m.

The container is straightened before final lowering.
The connection work can start.

Technically the best!

Figure similar

SBR process with stepless measurement of the water level via pressure sensor: batchpur controls the process as required.



Filling

Incoming waste water will be collected in the left chamber. First dirt particles settle out. The compressed air sensor controls the continuous transportation into the biological cleaning chamber (right chamber) according to requirement depending on the waste water quantity.

Venting

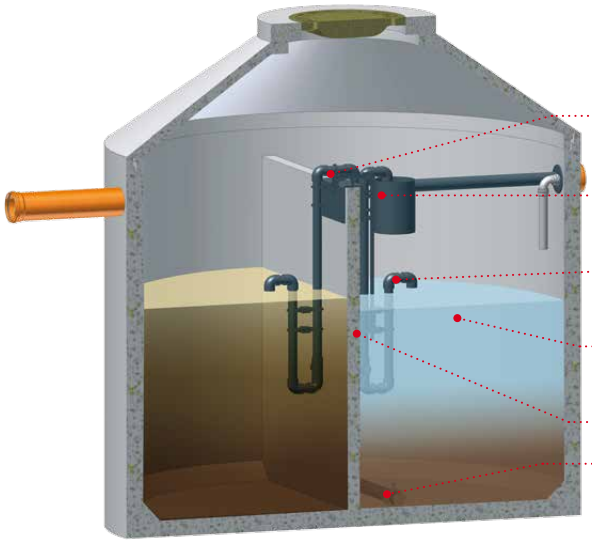
Waste water is biologically cleaned by oxygen supply and circulation. The automatic control optimises the venting time stepless and guarantees that always only the actually necessary energy is used. ...

quick ...

reliable ...

High quality components, thorough processing and sophisticated system:

Extendable anytime via modem for remote monitoring



- easy...con Control with oxygen control O2-Control (EP patented worldwide)
- Fully graphical illuminated display
- Stainless steel supports
- Coloured pressure hoses for easy and unambiguous assembly
- High quality GFK-control cabinet in series for inside and outside (IP 44)
- Adjustable holder for optimal adjustment to the partition wall
- Large sampling container for easy sampling including
- Wear-free air-lift pump of high quality industrial standard (instead of pumps)
- Exact, stepless measuring of water quantities without float
- Automatic surplus sludge removal
- Aerator removable also during operation

CE

ENERGIE EFFIZIENZ made in Germany
Exportinitiative Energieeffizienz

Settling out

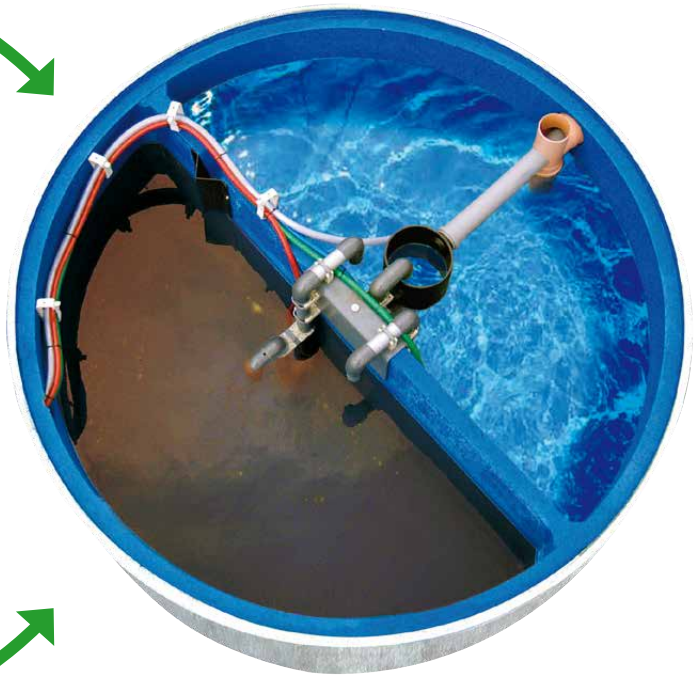
... The heavier bio mass sinks to the bottom during the settling out phase; a "clear water zone" with the cleared waste water forms in the upper region.

Separating

... the reliably reacting air-lift pump takes the cleared water "into the open" – directly into a body of water or a leaching.

The bio mass generated at the same time is however returned into the settling out chamber ...

The cleaning process starts again



safe!

Z-55.3-188 Klasse D + H vom 26.02.2007

Z-55.3-189 Klasse D vom 26.02.2007

Z-55.3-201 Klasse C vom 21.05.2007

CE

Clean convinces.

Clear arguments for the clean solution:

- **Outstanding**, because everything is at the technically highest standard of the SBR-processes.
- **Sustainable**, because the legal conditions are consistently met.
- **Reasonable**, because many "extras" are included in series production.
- **Longevity**, progressive and long-term good value for money, because no rotating or electrical elements are installed in the container. High-value compressed air lift pumps are installed instead of electric pumps.
- **Thrifty** regarding consumption, because the unique pressure sensor technology controls the consumption steplessly and according to requirements.
- **Credible**, because the plant from batchpur has passed all tests for devices and product safety, meets all accident prevention regulations and EU environment regulations and can also provide proof of this down to the smallest detail.
- **Maintenance-friendly**, because all conveying installations are designed wear-proof and are easily accessible, such as the sampling installation.
- **Guaranteed future**, because innovative modules keep your plant always at the latest state-of-the-art.

batchpur®

- Gastronomy, Hotels
- Single family houses / Multiple family dwellings
- Holliday homes
- Farms
- Businesses
- Camping sites
- Motorway service stations
- Sewage treatment plants for housing estates, villages and hamlets

European patents

... mean that you will get a real new development in the area of sewage treatment technology with a batchpur plant, tested and proven technically and legally as a future-orientated, innovative solution.

CE conformity

... is a precondition in Germany for in series manufactured product to be allowed at all into the market. This document confirms, among others, the cleaning performance of the plant.

Building supervisory authority approval certificates

... are issued by the German Institute for Building Technology (DIBt). They regulate the water discharge requirements for the construction and operation of small sewage treatment plants. The approval covers, in particular, the discharge classes as well as the requirements for installation, commissioning, maintenance and operation.

Explosion protection

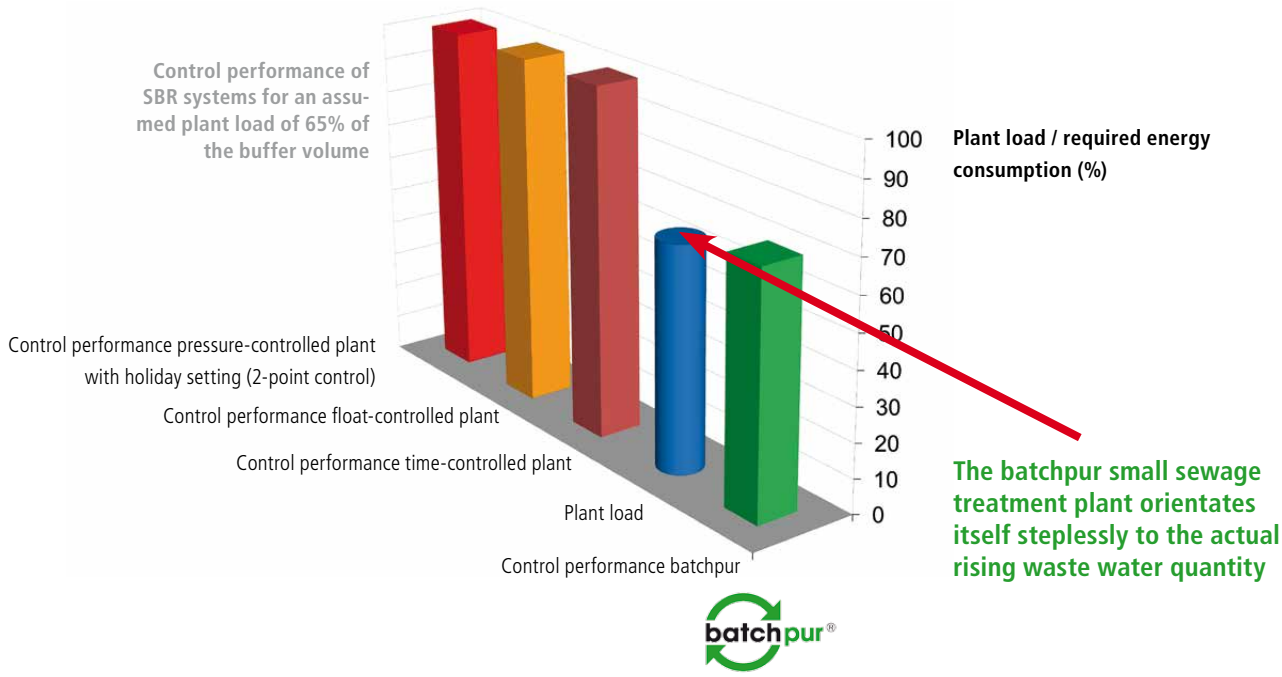
... as the plant works with air lift pumps there are no electrical pumps and components in the clarification tank.

These are the facts.

batchpur has a lot to show:

- Patent document pressure measuring
- European patent pressure measuring
- Patent document oxygen control
- European patent oxygen control
- Nine building supervisory authorities approval certificates of DIBt

batchpur performs better and is more economical!



All inclusive

Cleaning class C

Cleaning class N

Cleaning class D

+ Patented pressure sensor control

The more waste water, the more oxygen ...

A different waste water quantity (depending on how much waste water has flown in this cycle into the plant) is treated in every cycle in the SBR plants. The buffer is sometimes almost empty, during the following cycle it is filled with 60 % and the time after that perhaps with 90%. A respective quantity of oxygen must be fed in depending on how much waste water must be treated in the respective cycle.

The more oxygen, the more electricity ...

Feeding the oxygen is again carried out by using electricity. When there is a lot of waste water to be treated, a lot of oxygen and, with this, electricity is needed. When there is little waste water to be treated little oxygen and with this little electricity is needed.

Contrary to the batchpur, a time-controlled SBR plant has only one setting possibility: Irrespective of how much water is to be treated – the plant always runs at full capacity. This means: when little waste water is to be treated too much energy is used. A plant with float control performs in a similar way. This knows only two operating modes and can therefore react on the many different operating modes with two different operating modes only.

In the meantime there are also some plants with pressure sensor controls. But a differentiation is hereby absolutely necessary, which is of course not made by some manufacturers. A pressure sensor control, knowing only two operating modes (e.g. "Full/Empty" or "Normal operation/Holiday operation") can of course not react very exact to the different filling levels.

batchpur stepless control:

Little to treat, little energy...

More to treat, more energy ...

In the same way, in which your heating system with a stepless temperature control uses the energy according to the actual need, the small sewage treatment plant from batchpur reacts with the patent protected pressure sensor technology. The small sewage treatment plant from batchpur records the actual load steplessly in the respective cycle and uses only as much energy as actually needed for sewage treatment in the respective cycle. This saves you money, as only as much energy as needed is used. Also the installed aggregates (e.g. the compressor) run only as long as absolutely needed. This increases of course the service life and reduces maintenance costs.

+ Patented oxygen control

Only for batchpur small sewage treatment plants

The O2-control enables exact measurement of the air and oxygen quantity in relation to the oxygen consumption. The automatic adjustment of the venting times ensures efficient requirement of oxygen and electricity.

O_2-control®
Automatic oxygen control

+ High-performance compressors

Larger and very powerful compressors are installed in plants from batchpur. This has a good reason: As the larger compressors feed the necessary oxygen faster into the plant and the running time of compressors is shorter due to the patented treatment process, this does not lead to higher electricity consumption. On the contrary: Even if smaller, lower capacity compressors are installed in comparable plants, these must run longer to provide the oxygen needed in the sewage treatment plant. Calculate yourself exactly: You get more for your money from batchpur, as the use of larger compressors leads to longer life due the shorter running time. **This is the added value.**

Cleaning Class P

At additional cost

Phosphate elimination easy to install.

If your municipality issues an instruction to you that your waste water must be of waste water class P, meaning with phosphate precipitation, the small sewage treatment plant from batchpur offers you also in this case a simple and safe solution. You can achieve best waste water values with the assembly set for phosphate elimination.

The advantages:

- Exact dosing proportional to the waste water quantity
- Continuous container monitoring and level indication at the display
- Low costs, no wear
- 5 years guarantee on storage and dosing installation

Quick and clean assembly:

Simply fit it on to the separating wall

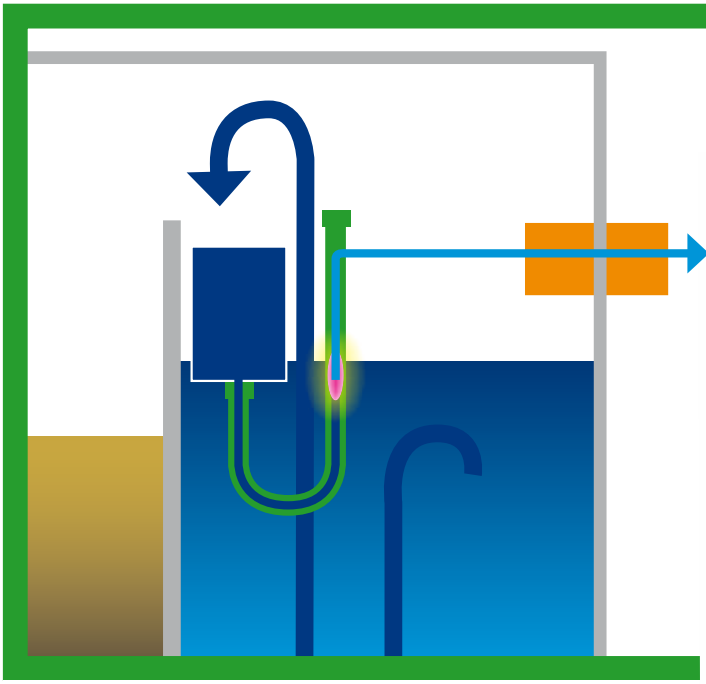
Practical: Large revision opening and overfilling display

Cleaning Class H

At additional cost

Clean due to UV light.

UV light kills bacteria and sterilises the passing water without chemicals



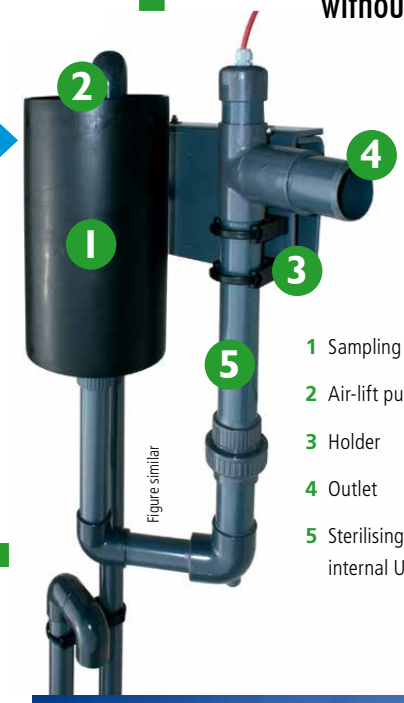


Figure similar

Geprüft durch - Z-55.3-188 Klasse D + H vom 26.02.2007

1 Sampling container
2 Air-lift pump clear water
3 Holder
4 Outlet
5 Sterilising device with internal UV-lamp

Sterilised water with UV light

You can sterilise your waste water cost-effective and environment-friendly with the batchpur UV-hygienization facility according to the current EU Directives.

The advantages:

- **All proofs complete**
- **Low investment and operating costs**
- **Simple installation** into existing plants
- **Sustainable for the environment** – saves your wallet
- **Reduced maintenance costs** – as no regular replacement of membranes is needed
- **Reasonable as a package** – Module design allows simple upgrade of the standard batchpur version

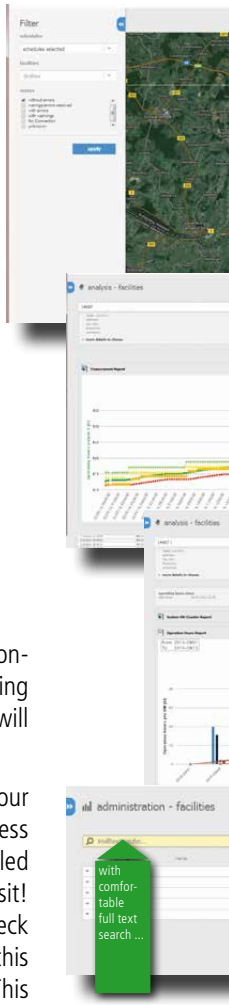
Swimming water quality

Fulfil obligations – enjoy flexibility.

... always in contact!

You can communicate with the easy...con-control with your batchpur plant via the Internet. With easy...con you can check at any time far away from the plant on the PC, laptop or via Smart-phone, if your small sewage treatment plant is running.

easy...con processes the data for HTML and can be called-up via your Internet browser. You will not need any software installation and no special operating system. **That is state of the art.**



... always high effiency through valuable data!

The evaluation of the information is always only as good as the data supplied and the small sewage treatment plant batchpur is astoundingly good in this matter: The batchpur control is in principle designed in such a way that it records extensively and thoroughly everything happening in the plant. It can, therefore, inform you in detail about the cleaning process, electricity consumption and functioning of batchpur via easy...con.

Also the operation log bookkeeping required by the authorities becomes rather easy: Direct updating on the computer, storage and printing out. Manual input is a thing of the past.

... always safe regarding costs!

Due to the remote monitoring of the data, the maintenance company - with your consent - can regulate your small sewage treatment plant in the event of a fault, depending on the type of control unit without being on-site. Travel is unnecessary and you will have less costs

Another advantage is: You do not have to sacrifice days of your holidays when your batchpur plant is serviced. With your permission your service technician can have access to the control unit of the plant via password and Internet access also if it is installed inside your house. He does not need access to your house on any maintenance visit! The new easy con controls allows bi-directional data exchange. Not only can you check online and access you log book but also check the parameters of the plant or have this done by granting access to an authorised service engineer for maintenance work. This saves you travel time and lost holidays.

More comfort. Lower costs. Consistently fair.

At fair conditions.

Online access

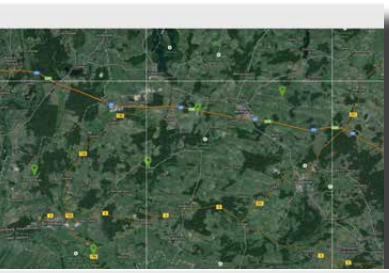
At additional cost

... the perfect protection for owners!

The daily inspection of the batchpur plant becomes a comfortable routine operation: From the sofa, the holiday location, as owner from far away ... **because of the love of progress.**

... Operating individually – central administration!

Associations and owner organisations can now manage all batchpur plants from a central office. The efforts for documentation and administration are enormously simplified and the costs stay low. **In this way responsibility can be assumed.**



... The service technician is informed and can act!

Every batchpur plant with easy...con can be controlled. Remote servicing and uploading of batchpur updates is effectively possible at all times. Service work and test runs of the batchpur plants can also be carried out within the framework of a servicing contract during the absence of the residents. Making appointments will be enormously easy and can be planned for normal business hours. **This will be a real service to the customer.**

... Reporting by email!

Short information about failures will be given to stored phone numbers or email addresses. This makes speedy reaction possible, also by the responsible service person, who will be informed automatically. You can save your own time and keep your options open as remedial actions may be taken immediately.

Well informed.

Sustainably clean.

batchpur in the concrete container!

longevity

The required usage characteristics of a concrete container remain constant over the whole life time. The material does not age or becomes brittle.

stable form

The material concrete withstands also unfilled high static soil pressure. Concrete quality C40/50

water tight

Dense concrete structure due to most modern manufacturing technology.

break-proof

And can be loaded up to SLW 60, checked by authorized body with certificate.

easy installation

The container will be inserted by crane or digger into the building pit, the working space can, as a rule, be refilled with available soil.

buoyancy proof

Buoyancy is prevented also at high ground water levels due to high material weight.

ecological

Only natural products (cement, gravel, sand, hard stone and water) without chemical changes are used. The CO2 emission during production is low. The containers are fully recyclable.

Concrete containers

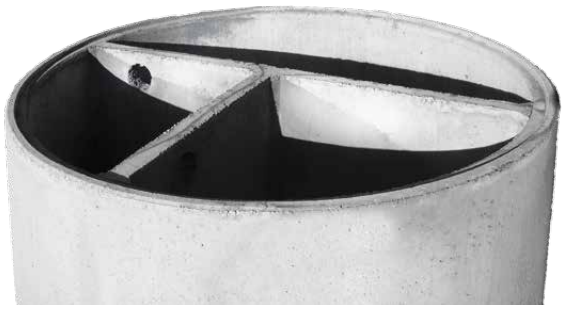
Clarification containers from concrete are absolutely watertight. A high concrete quality in combination with modern manufacturing technology guarantees a quality product meeting all requirements of the sewage treatment

- break-proof
- stable form
- buoyancy-safe
- quick and easy assembly

With all building supervisory authority certificates C, N, P, D and H

CE

Concrete keeps its promise.



Plastic Material Container

Figure similar

... As an alternative in tight spaces which require an installation without crane: batchpur is available with a PE plastic material container; tested to EN 12566 part 3. Of course with CE label and application approval by DIBt!

... batchpur also in a plastic material container!

A new high-quality processed plastic container is now available for the batchpur small sewage treatment plant. Sustainability comes first also here:

- Manufactured in Germany: meaning short transport routes
- High-quality material: HDPE for high own weight
- Best processing: Welded, not cast
- Tested in Germany: DIBt-certificates C + D
- Precisely dimensioned: Available in three sizes

With all components and extension modules.
Indeed the original!

CE

For special installation situations also in plastic container with certificates C+D

Maintenance service

At additional cost

Long-term clean.

The batchpur small sewage treatment plant stands out due to extremely easy care and, as a rule, pumping free from blockages and cleaning through large pipe diameters.

Still: A plant, operating day and night, occasionally needs a little care and, in addition, now and again checking that the effluent of the plant fulfils the required water quality.

Your batchpur specialist company offers professional certified maintenance service. The machine and electro-technical parts of the plant will be checked, possibly re-set and optimised. The measurements stipulated by the authorities will be carried out, the water values determined and confirmed by independent test laboratories.

Put your batchpur plant in good hands:

- You can be sure that all building and technical elements will be professionally cleaned and cared for.
- You will know that your plant is serviced competently.
- In case of a fault, you will immediately receive original spare parts.
- You can be sure that your plant runs correctly.

Professional.

Optimal.

Reasonable.

Simply comfortable.

"All clear?!"

Guide for operators of small sewage treatment plants

Help to make a decision and factors which show the "added value" of a small sewage treatment plant:

What is included in the standard package?

In batchpur cleaning classes C, N and D and many "extras" are included in the standard package. For example, nitrogen elimination (nitrification and denitrification) according to new norms as well as the necessary sampling containers are included as standard. **It is worthwhile to study thoroughly and compare offers to avoid hidden costs.**

Is safety guaranteed?

Question the compliance with the Equipment and Product Safety Act. **batchpur meets these requirements also in regard to ATEX and explosion protection!**

What additional costs can ensue?

In the batchpur small sewage treatment plant high-quality plastics and stainless steel are used according to industry standards. Overall, the system is designed in an extremely maintenance-friendly way because all parts that require regular maintenance are easily accessible and most building components are assembled reversibly. From design to processing attention is paid to corrosion-free, wear-free technical solutions. **Ensuing costs are under control.**

What will I need in future?

batchpur can handle all cleaning classes: Should the environmental requirements for your region change - you can always upgrade your batchpur small sewage treatment plant to the highest cleaning class H.

And if you want, you can now go online with your batchpur small sewage treatment plant: The new easy ... con-control allows the exchange of data in two directions. Not only can you check online and access your log book, you can control also the parameters of the system online, or grant access to your service technician for maintenance activities. This will save you travel costs and not force you to "give away" holidays. **This is the future.**

Recognize real benefits!

batchpur®

Many questions ... and answers

With the large range of products on offer, how can you decide what is a responsible and sustainable choice?

batchpur small sewage treatment plants are designed and manufactured with care and foresight. These are small technical details which confirm our commitment to sustainability and performance, such as high-quality, long-life materials used for the individual components in accordance with a high industrial standard, glued and welded connections in plastic piping and sockets instead of fast plug-in connectors etc. You will discover this as a consumer as the years pass. In addition, the individual batchpur components can be simply and inexpensively removed and replaced. **batchpur is the small sewage treatment plant which also thinks for the next generation.**

What are the manufacturer's details on energy consumption based on?

The energy consumption of small sewage treatment plants is determined by an accredited testing institute in a test area. The procedure and the ambient criteria are strictly defined by the Construction Products Regulation. Make sure that a manufacturer publishes the values of its own measurements or the official results. **All information that you find at batchpur is officially determined by a neutral testing centre for consumption values.**

A technical sewage treatment plant needs energy to clean the waste water. How is this really adjusted to the amount of sewage water?

The energy consumption of a small sewage treatment plant is largely dependent on the waste composition and quantity of waste water to be cleaned.

A large amount of waste water usually means a higher energy intake; little waste water means a lower supply of energy for sewage treatment. In the case of a so-called "automatic adjustment" to the amount of waste water this often requires only a "two-point control". Using a pressure sensor or float switch two operating modes of a plant are determined: Normal operation and holiday mode (also termed saving or holiday mode). This is, in principle, a very simple control that can more or less accurately detect only two operating states of a plant.

But in terms of waste water amounts ultimately no two days are the same: The amounts of loads of a washing machine differ daily. Or usually showers are not taken always at the same time or using the same amount of water. Or guests come to visit. Or a family member is working night shifts.

So it is obvious that for a small sewage treatment plant there are no constant conditions with regard to the waste water inflow. There are cycles in which absolutely no waste water is produced - for example at night - and there are cycles in which the buffer of the system is filled with 10% or 20% or 70% or 100%.

When a small sewage treatment plant has only a two-point control, all different load scenarios can be ultimately handled by only two different control commands. Thus, these systems often run at 100% to ensure cleaning performance, even when only a small sewage load is present.

batchpur works with continuous recording of waste water in the SBR reactor. This technology is exceptional and protected by a European patent. Only through this continuous recording can it be guaranteed that the energy is actually supplied as required by the waste water.

... all about technology and quality.

How does continuous recording of the waste water amount work?

The continuous recording of the amount of waste water is comparable to the precise adjustment of a heating control to the outdoor temperature. Only a heater that can be infinitely adjusted to rapidly changing weather conditions works in an economically effective way. The same applies to small sewage treatment plants. Depending on how much waste water is to be treated in each cycle, an appropriate amount of oxygen needs to be supplied to the SBR systems. The more waste water, the more oxygen – the more oxygen, the more electrical energy is required.

Just as your heating system with a variable temperature control uses the energy corresponding to the actual needs, a batchpur small sewage treatment plant reacts with patent-protected pressure sensor technology. That is, the water level is measured by the controls using a pressure sensor, which is not in contact with the water and therefore works free of wear and tear. **Small sewage treatment plant records continuously the actual load in each cycle and uses only as much energy as is actually needed in the respective cycle for sewage treatment.**

This will save you money while ensuring consistent cleaning quality, because only as much energy is used as needed. The units used (e.g. compressor) only run as long as is absolutely necessary.

Of course, this increases the life of the compressor and reduces the maintenance costs.

What is the value of a small sewage treatment plant and how can this be recognised?

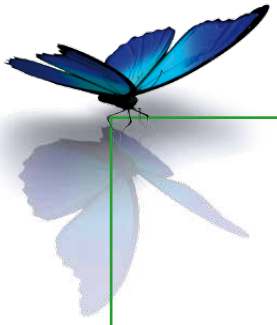
In addition to the technology and the running cost in operation, the largest differences are in the processing of assembly kits for a small sewage treatment plant. Thus, the plastic pipe systems are, for example, often only assembled from HT pipes. The costs of this implementation are significantly lower in manufacturing and are actually used only at zero pressure in construction technology. Since these connectors are not designed for pressurization, the sleeves are often stabilized with additional screws.

batchpur uses as airlift tubes exclusively those of a certified industrial standard, which are glued to pressure-resistant pipe joints to 10 bar. Of course, the production of these air-lift pumps is more sophisticated and costly. **An investment that pays off.**

Furthermore: Often the compressors used are too small. These must then run permanently under a full load. This is comparable to a small car, which is continually being driven at high speed with full throttle: The result is high energy consumption and faster wear and tear. **batchpur uses compressors that are far above the average requirements and ensure energy savings in a stress-free energy level of continuous operation.**

Air lift pump versus electric pump: What are the decisive criteria of both options?

Whether it is an ordinary pump or an airlift pump, both are there to keep the waste water moving in the clarification tank. Sewage is a very "aggressive" medium (both corrosive and abrasive) in that these components operate where they are exposed to chemical reactions which cause both abrasion and corrosion. The electric submersible pumps very often used in SBR plants have three serious drawbacks: they show far more wear and tear on account of these chemical influences, they require intensive maintenance, since they can become entwined and through contact with the gases in the container they require reliable explosion protection. **batchpur uses pulsometers that work without an electronic drive unit in the tank, operating virtually clog-free because they contain no moving parts and on account of the high-quality plastics guarantee a long service life in sewage treatment.**



Advantages and facts

High-quality standard configuration	Series	Option (Add. costs)
High-quality materials	✓	
Wear-proof air lift pumps	✓	
Proven low operating costs	✓	
Can be upgraded very easy and clean	✓	
No pumps in the waste water; therefore no blocking and wear of pumps in the small sewage treatment plant	✓	
Only lasting and high-quality plastic and stainless stainless steel parts inside and outside of the sewage treatment plant container	✓	
Sampling container already included in the basic price	✓	
All cleaning classes available	Classes C, N and D included in basic price	• class P • class H ☺
Sole plant with patented oxygen control O2 control	✓	
Patented filling level control	✓	
Automatic recording of the waste water quantity to be treated (patented)	✓	
Automatic and stepless adjustment of the compressor operating times to the actual plant load (patented)	✓	
Explosion safe plant as no electrical elements (pumps) are installed in the sewage treatment container	✓	
Compressed air lift pump of industrial standard (No pushed-in HT-tubes)	✓	
Low-noise energy-saving "airstep" stepped motors which show virtually no wear and tear.	✓	
Illuminated six-lines display	✓	
Electronic operation diary	✓	
USB interface	✓	
Modem interface	✓	
Modem		☺
Online portal easy...con for remote monitoring		☺

CE